IN THE CLAIMS:

Claim 1 (cancelled).

Claim 2 (previously presented) A compound according to claim 18 wherein R^1 is C_1 - C_6 alkyl which may optionally be substituted with one hydroxy, fluoro, CF_3 , or C_1 - C_4 alkoxy group and may optionally contain one double or triple bond provided that at least two carbons are present in the C_1 - C_6 alkyl group; and R^2 is benzyl, C_1 - C_6 alkyl, which may optionally contain one double or triple bond provided that at least two carbons are present, where said C_1 - C_6 alkyl and the phenyl moiety of said benzyl may optionally be substituted with one fluoro CF_3 , or C_1 - C_2 alkyl, C_1 - C_2 alkoxy or chloro group.

Claim 3 (previously presented) A compound according to claim 18 wherein: R³ is methyl, ethyl, chloro or methoxy; R⁴ is methyl or ethyl, G is hydrogen, methyl, ethyl, or E=G is C=O or C=S and R⁵ is phenyl, pyridyl, or pyrimidyl which is substituted with more than two substituents which are independently selected from C₁-C₄ alkyl and -O(C₁-C₄ alkyl), (C₁-C₄ alkyl)-O-(C₁ - C₂ alkyl), CF₃, OCF₃, -CHO, (C₁-C₄alkyl)-OH, CN, Cl, F, Br, I and NO₂, wherein one of the carbon-carbon single bonds of each of the foregoing (C₁-C₄)alkyl, groups having at least two carbons may optionally be replaced by a carbon-carbon double or triple bond.

Claim 4 (previously presented) A compound according to claim 18 wherein A is N or A is CH or CCH₃ which may optionally be substituted by fluoro, chloro, CF_3 , C_1 - C_4 alkoxy.

Claims 5, 6 and 7 (cancelled)

Claim 8 (previously presented)

A compound according to claim 18 wherein F is

 NR^4 .

Claim 9 (previously presented)

A compound as claimed in claim 18 wherein F is

CHR4.

Claim 10 (previously presented)

A compound according to claim 18 wherein F is

nitrogen and is double bonded to E.

Claim 11 (cancelled)

Claim 12 (previously presented) A compound according to claim 18 wherein E is

carbon.

Claim 13 (previously presented)

A compound according to claim 18 wherein E is

nitrogen.

Claim 14 (previously presented) A compound according to claim 18 wherein E is

NR²⁵ and R²⁵ is hydrogen, C₁-C₄ alkyl or-CF₃,

Claims 15, 16 and 17 (cancelled)

Claim 18 (currently amended)

A compound of the formula

$$R^3$$
 N
 D
 E
 C
 ZR^5

wherein the dashed lines represent optional double bonds;

B is $-NR^1R^2$, $-CR^1R^2R^{10}$, $-C(=CR^2R^{11})R^1$, $-NHCR^1R^2R^{10}$, $-OCR^1R^2R^{10}$, $-SCR^1R^2R^{10}$, $CR^2R^{10}NHR^1$, $-CR^2R^{10}OR^1$, $-CR^2R^{10}SR^1$ or $-COR^2$;

E is nitrogen, CH or carbon;

D is nitrogen and is single bonded to all atoms to which it is attached, or D is carbon and is double bonded to E, or D is CH and is single bonded to E;

F is CHR⁴ or NR⁴; provided that either 1) exactly one of D or E is nitrogen and F is CHR⁴ or 2) F is NR⁴ and neither D nor E is nitrogen;

G, when single bonded to E is hydrogen, C_1 - C_4 alkyl, -S(C_1 - C_4 alkyl), -O(C_1 - C_4 alkyl), NH₂, -NH(C_1 - C_4 alkyl) or -N (C_1 - C_2 alkyl)(C_1 - C_4 alkyl) wherein each of the C_1 - C_4 alkyl groups of G may optionally be substituted by one hydroxy, -O(C_1 - C_2 alkyl) or fluoro group; and G when double bonded to E is oxygen, sulfur or NH; and G, when E is nitrogen and double bonded to D, is absent;

 R^1 is hydrogen, C_1 - C_6 alkyl optionally substituted with one or two substituents R^8 independently selected from hydroxy, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, CF_3 , - $C(=O)O-(C_1-C_4)$ alkyl, $-OC(=O)(C_1-C_4)$ alkyl, OC(=O)N (C_1-C_4 alkyl)(C_1-C_2 alkyl), - $CONH(C_1-C_4)$ alkyl), $CONH(C_1-C_4)$

 $SO_2NH(C_1-C_4 \text{ alkyl})$, $SO_2N(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl})$, wherein a carbon-carbon single bond of each of the C₁-C₄ alkyl groups in the foregoing R¹ groups having at least two carbons may optionally be replaced with a carbon-carbon double or triple bond, and one or two carbon-carbon single bonds of each of the C₁-C₄ alkyl groups in the foregoing R¹ groups having four carbon atoms may optionally be replaced with a carbon-carbon double or triple bond; R2 is C1-C12 alkyl wherein one carbon-carbon single bond of any said alkyl group having at least two carbons, one or two carbon-carbon single bonds of any alkyl having at least four carbons, and from one to three carbon-carbon single bonds of any said alkyl having at least six carbons may optionally be replaced with a carboncarbon double or triple bond; or R2 is aryl or (C1-C4 alkylene) aryl, wherein said aryl and the aryl moiety of said (C₁-C₄ alkylene)aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; or R2 is C3-C8 cycloalkyl or (C1-C6 alkylene)(C3-C8 cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said (C₁-C₆ alkylene)(C₃-C₈ cycloalkyl) may optionally and independently be replaced by an oxygen or sulfur atom or by NZ² wherein Z² is selected from hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein each of the foregoing R² groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C₁-C₄ alkyl, or with one substituent selected from bromo, iodo, C₁-C₆ alkoxy, -OC(=O)(C₁-C₆ alkyl), OC(=O)N $(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl})$, $-S(C_1-C_6 \text{ alkyl})$, amino, $-NH(C_1-C_2 \text{ alkyl})$, $-N(C_1-C_2 \text{ alkyl})$ alkyl)(C_1 - C_4 alkyl), -N(C_1 - C_4 alkyl)-CO-(C_1 - C_4 alkyl), -NHCO(C_1 - C_4 alkyl), -COOH, -

 NO_2 , $-SO(C_1-C_4$ alkyl), $-SO_2(C_1-C_4$ alkyl), $-SO_2NH(C_1-C_4$ alkyl) and $-SO_2N$ (C_1-C_4 alkyl)(C_1-C_2 alkyl);

-NR¹R² may form a 3 to 8 membered ring,[[,]] said ring consisting of single bonds, wherein, when said ring has from 5 to 8 members, one or two of the ring carbon atoms of such a 5 to 8 membered ring may optionally and independently br replaced by an oxygen or sulfur atom or by NZ³ wherein Z³ is hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

or -CR¹R²R¹⁰ may form a 3 to 8 membered carbocyclic ring, said ring consisting of single bonds, wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

 R^3 is hydrogen, C_1 - C_4 alkyl, $O(C_1$ - C_4 alkyl), chloro, fluoro, bromo, iodo, -CN, - $S(C_1$ - C_4 alkyl) or - $SO_2(C_1$ - C_4 alkyl) wherein each of the $(C_1$ - C_4 alkyl) moieties in the foregoing R^3 groups may optionally be substituted with one substituent R^9 selected from hydroxy, fluoro and $(C_1$ - C_2 alkoxy);

each of R^4 is, independently hydrogen, $(C_1\text{-}C_6 \text{ alkyl})$, fluoro, chloro, bromo, iodo, hydroxy, cyano, amino, nitro, $-O(C_1\text{-}C_4 \text{ alkyl})$, $N(C_1\text{-}C_4 \text{ alkyl})(C_1\text{-}C_2 \text{ alkyl})$, $-S(C_1\text{-}C_4 \text{ alkyl})$, $-SO(C_1\text{-}C_4 \text{ alkyl})$, $-SO(C_1\text{-}C_4 \text{ alkyl})$, $-SO(C_1\text{-}C_4 \text{ alkyl})$, $-CO(C_1\text{-}C_4 \text{ alkyl})$, -C(=O)H or $C(=O)O(C_1\text{-}C_4 \text{ alkyl})$, wherein one or two of the carbon-carbon single bonds in each of the $(C_1\text{-}C_6 \text{ alkyl})$ and $(C_1\text{-}C_4 \text{ alkyl})$ moieties in the foregoing R^4 groups may optionally be replaced with a carbon-carbon double or triple bond and wherein each of said $(C_1\text{-}C_6 \text{ alkyl})$

alkyl) and (C_1 - C_4 alkyl) moieties may optionally be substituted with one or two substituents independently selected from hydroxy, amino, C_1 - C_3 alkoxy, dimethylamino, methylamino, ethylamino, -NHC(=0)CH₃, fluoro, chloro, -CN, -COOH, -C(=0)O(C_1 - C_4 alkyl), -C(=0)(C_1 - C_4 alkyl) and NO₂;

R⁵ is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, furanyl, benzofuranyl, benzothiazolyl, benzisothiazolyl, benzisoxazolyl, benzimidazolyl, indolyl, benzoxazolyl or C3-C8 cycloalkyl wherein one or two of the carbon atoms of said cycloalkyl rings that contain at least 5 ring members may optionally and independently be replaced by an oxygen or sulfur atom or by NZ⁴ wherein N⁴ is hydrogen, C₁-C₄ is alkyl or benzyl; and wherein each of the foregoing R⁵ groups is substituted with from one to four substituents wherein one to three of said substituents may be selected, independently, from chloro, C₁-C₆ alkyl and -O(C₁-C₆ alkyl) and one of said substituents may be selected from bromo, iodo, formyl, -CN, -CF₃, -NO₂, -NH₂, -NH(C₁-C₄ alkyl), - $N(C_1-C_2 \text{ alkyl})(C_1-C_6 \text{ alkyl}), -C(=O)O(C_1-C_4 \text{ alkyl}), -C(=O)(C_1.C_4 \text{ alkyl}), -COOH, -C$ $SO_2NH(C_1-C_4 \text{ alkyl}), -SO_2N \text{ } (C_1.C_2 \text{ alkyl}) \text{ } (C_1-C_4 \text{ alkyl}), -SO_2NH_2, \text{ } NHSO_2(C_1.C_4 \text{ alkyl}), -SO_2NH_2, -SO_2NH_2,$ S(C₁-C₆ alkyl) and -SO₂(C₁-C₆ alkyl), and wherein each of the C₁.C₄ alkyl and C₁-C₆ alkyl, moieties in the foregoing R5 groups may optionally be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino, dimethylamino and acetyl; and furthermore wherein when R5 is phenyl or pyridyl substituted with three substituents, said substituents can further be selected from (C₁-C₄ alkyl) $O(C_1-C_4$ alkyl), $OCF_{3,}$ and fluoro, and one carbon-carbon single bond of each $(C_{1-1}-C_4)$ C₄) alkyl group of said substituents having between two and four carbon atoms may be optionally replaced with a carbon-carbon double or triple bond; or R⁵ is pyrimidyl

substituted by three substituents independently selected from $C_1.C_4$ alkyl, $-O(C_1.C_4$ alkyl), CF_3 , OCF_3 , -CHO, $(C_1.C_4$ alkyl)-OH, CN, Cl, F, Br, I and NO_2 , wherein a carbon-carbon single bond of said (C_1-C_4) alkyl groups having been two and four carbon atoms may optionally be replaced by a carbon-carbon double or triple bond;

 R^7 is hydrogen, C_1C_4 alkyl, halo, cyano, hydroxy, $-O(C_1-C_4$ alkyl) $-C(=O)(C_1C_4$ alkyl), $-C(=O)O(C_1-C_4$ alkyl), $-O(E_3C_4)$, $-O(E_3C_4)$,

R¹⁰ is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁₋C₄ alkyl; and

with the proviso that: (a) when R⁴ is attached to nitrogen, it not halo, cyano or nitro; and (b) one of E, D and F must be nitrogen or substituted nitrogen, and only one of E, D and F can be nitrogen or substituted nitrogen;

Z is NH, oxygen, sulfur, $-N(C_1.C_4 \text{ alkyl})$, $-NC(=O)(C_1.C_2 \text{ alkyl}) NC(-O)O(C_1-C_2 \text{ alkyl})$ or CR^{13} R^{14} wherein R^{13} and R^{14} are independently selected from hydrogen, trifluoromethyl and methyl with the exception that one of R^{13} and R^{14} can be cyano;

or a pharmaceutically acceptable salt of such compound.

Claims 19 - 24 (cancelled)

Claim 25 (currently amended) A compound of the formula

$$R^3$$
 N
 D
 $E^{----}G$

wherein the dashed lines represent optional double bonds;

 $B is -NR^{1}R^{2}, -CR^{1}R^{2}R^{10}, -C(=CR^{2}R^{11})R^{1}, -NHCR^{1}R^{2}R^{10}, -OCR^{1}R^{2}R^{10}, -SCR^{1}R^{2}R^{10}, -CR^{2}R^{10}OR^{1}, -CR^{2}R^{10}SR^{1} or -COR^{2};$

E is nitrogen, CH or carbon;

D is nitrogen and is single bonded to all atoms to which it is attached, or D is carbon and is double bonded to E, or D is CH and is single bonded to E;

F is CHR⁴ or NR⁴; provided that either 1) exactly one of D or E is nitrogen and F is CHR⁴ or 2) F is NR⁴ and neither D nor E is nitrogen⁵

G, when single bonded to E is hydrogen, C_1 - C_4 alkyl, -S(C_1 - C_4 alkyl), -O(C_1 - C_4 alkyl), NH₂, -NH(C_1 - C_4 alkyl) or -N (C_1 - C_2 alkyl)(C_1 - C_4 alkyl) wherein each of the C_1 - C_4 alkyl groups of G may optionally be substituted by one hydroxy, -O(C_1 - C_2 alkyl) or fluoro group; and G when double bonded to E is oxygen, sulfur or NH; and G, when E is nitrogen and double bonded to D, is absent;

 R^1 is hydrogen, C_1 - C_6 alkyl optionally substituted with one or two substituents R^8 independently selected from hydroxy, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, CF_3 , - C(=O)O- $(C_1$ - C_4)alkyl, - $OC(=O)(C_1$ - C_4)alkyl, OC(=O)N (C_1 - C_4 alkyl)(C_1 - C_2 alkyl), - $OC(C_1$ - C_4 alkyl), - $OC(C_1$ - C_4 alkyl), - $OC(C_1$ - C_4 alkyl), - $OC(C_1$ - C_4 alkyl), - $OC(C_1$ - C_4 alkyl), - $OC(C_1$ - C_4 alkyl), - $OC(C_1$ -

any alkyl having at least four carbons, and from one to three carbon-carbon single bonds of any said alkyl having at least six carbons may optionally be replaced with a carboncarbon double or triple bond; or R2 is aryl or (C1-C4 alkylene) aryl, wherein said aryl and the aryl moiety of said (C₁-C₄ alkylene)aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; or R² is C₃-C₈ cycloalkyl or (C₁-C₆ alkylene)(C₃-C₈ cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said (C₁-C₆ alkylene)(C₃-C₈ cycloalkyl) may optionally and independently be replaced by an oxygen or sulfur atom or by NZ^2 wherein Z^2 is selected from hydrogen, C_1 - C_4 alkyl, benzyl and C_1 - C_4 alkanoyl, and wherein each of the foregoing R² groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C₁-C₄ alkyl, or with one substituent selected from bromo, iodo, C₁-C₆ alkoxy, -OC(=O)(C₁-C₆ alkyl), OC(=O)N $(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl}), -S(C_1-C_6 \text{ alkyl}), \text{ amino, -NH}(C_1-C_2 \text{ alkyl}), -N(C_1-C_2 \text{$ $alkyl)(C_1-C_4\ alkyl),\ -N(C_1-C_4\ alkyl)-CO-(C_1-C_4\ alkyl),\ -NHCO(C_1-C_4\ alkyl),\ -COOH,\ -NHCO(C_1-C_4\ alkyl),\ -N$ $NO_2, -SO(C_1-C_4 \text{ alkyl}), -SO_2(C_1-C_4 \text{ alkyl}), -SO_2NH(C_1-C_4 \text{ alkyl}) \text{ and } -SO_2N \text{ } (C_1-C_4 \text{ alkyl}) \text{ } (C_1-C_4 \text{ alk$ $alkyl)(C_1-C_2 alkyl);$

-NR¹R² may form a 3 to 8 membered ring, [[,]] said ring consisting of single bonds, wherein, when said ring has from 5 to 8 members, one or two of the ring carbon atoms of such a 5 to 8 membered ring may optionally and independently br replaced by an oxygen or sulfur atom or by NZ³ wherein Z^3 is hydrogen, C_1 - C_4 alkyl, benzyl and C_1 -

C₄ alkanoyl, and wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

or -CR¹R²R¹⁰ may form a 3 to 8 membered carbocyclic ring, said ring consisting of single bonds, wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

 R^3 is hydrogen, C_1 - C_4 alkyl, $O(C_1$ - C_4 alkyl), chloro, fluoro, bromo, iodo, -CN, - $S(C_1$ - C_4 alkyl) or - $SO_2(C_1$ - C_4 alkyl) wherein each of the $(C_1$ - C_4 alkyl) moieties in the foregoing R^3 groups may optionally be substituted with one substituent R^9 selected from hydroxy, fluoro and $(C_1$ - C_2 alkoxy);

each of R^4 is, independently hydrogen, $(C_1\text{-}C_6 \text{ alkyl})$, fluoro, chloro, bromo, iodo, hydroxy, cyano, amino, nitro, $-O(C_1\text{-}C_4 \text{ alkyl})$, $N(C_1\text{-}C_4 \text{ alkyl})(C_1\text{-}C_2 \text{ alkyl})$, $-S(C_1\text{-}C_4 \text{ alkyl})$, $-SO(C_1\text{-}C_4 \text{ alkyl})$, $-SO(C_1\text{-}C_4 \text{ alkyl})$, $-C(E_0)$ or $-C(E_0)$ 0 ($-C(E_1)$ 0 or $-C(E_1)$

R⁵ is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, furanyl, benzofuranyl, benzothiazolyl, benzisothiazolyl, benzisoxazolyl, benzimidazolyl, indolyl, benzoxazolyl or C₃-C₈ cycloalkyl wherein one or two of the carbon atoms of said cycloalkyl rings that contain at least 5 ring members may optionally and independently be replaced by an oxygen or sulfur atom or by NZ⁴ wherein N⁴ is hydrogen, C₁-C₄ is alkyl or benzyl; and wherein each of the foregoing R⁵ groups is substituted with from one to four substituents wherein one to three of said substituents may be selected, independently, from chloro, C₁-C₆ alkyl and -O(C₁-C₆ alkyl) and one of said substituents may be selected from bromo, iodo, formyl, -CN, -CF₃, -NO₂, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₂ alkyl)(C₁-C₆ alkyl), -C(=O)O(C₁-C₄ alkyl), -C(=O)(C₁.C₄ alkyl), -COOH, -SO₂NH(C₁-C₄ alkyl), -SO₂N (C₁.C₂ alkyl) (C₁-C₄ alkyl), -SO₂NH₂, NHSO₂ (C₁.C₄ alkyl), -S(C₁-C₆ alkyl) and -SO₂ (C₁-C₆ alkyl), and wherein each of the C₁.C₄ alkyl and C₁-C₆ alkyl, moieties in the foregoing R⁵ groups may optionally be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino, dimethylamino and acetyl;

 $R^7 \text{ is hydrogen, } C_{1} \cdot C_4 \text{ alkyl, halo, cyano, hydroxy, -O(C$_1$-C$_4 alkyl) -C(=O)(C$_1$-C$_4 alkyl), -C(=O)O(C$_1$-C$_4 alkyl), -OCF$_3, -CF$_3, -CH$_2$-OH, -CH$_2O(C$_1$-C$_4 alkyl);}$

R¹⁰ is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁.C₄ alkyl; and

with the proviso that: (a) when R⁴ is attached to nitrogen, it not halo, cyano or nitro; and (b) one of E, D and F must be nitrogen or substituted nitrogen, and only one of E, D and F can be nitrogen or substituted nitrogen;

Z is NH, oxygen, sulfur, $-N(C_1.C_4 \text{ alkyl})$, $-NC(=O)(C_1.C_2 \text{ alkyl}) NC(-O)O(C_1-C_2 \text{ alkyl})$ or CR^{13} R^{14} wherein R^{13} and R^{14} are independently selected from hydrogen,

trifluoromethyl and methyl with the exception that one of R¹³ and R¹⁴ can be cyano; or a pharmaceutically acceptable salt of such compound.

26 (currently amended) A compound of the formula

$$R^3$$
 N
 $E^{---}G$
 ZR^5

wherein the dashed lines represent optional double bonds;

B is -NR¹R², -CR¹R²R¹⁰, -C(=CR²R¹¹)R¹, -NHCR¹R²R¹⁰, -OCR¹R²R¹⁰, -SCR¹R²R¹⁰, CR²R¹⁰NHR¹, -CR²R¹⁰OR¹, -CR²R¹⁰SR¹ or -COR²;

E is nitrogen, CH or carbon;

D is nitrogen and is single bonded to all atoms to which it is attached, or D is carbon and is double bonded to E, or D is CH and is single bonded to E;

F is CHR⁴ or NR⁴; provided that either 1) exactly one of D or E is nitrogen and F is CHR⁴ or 2) F is NR⁴ and neither D nor E is nitrogen;

G, when single bonded to E is hydrogen, C_1 - C_4 alkyl, $-S(C_1$ - C_4 alkyl), $-O(C_1$ - C_4 alkyl), NH_2 , $-NH(C_1$ - C_4 alkyl) or -N (C_1 - C_2 alkyl)(C_1 - C_4 alkyl) wherein each of the C_1 - C_4 alkyl groups of G may optionally be substituted by one hydroxy, $-O(C_1$ - C_2 alkyl) or fluoro group; and G when double bonded to E is oxygen, sulfur or NH; and G, when E is nitrogen and double bonded to D, is absent;

 R^1 is hydrogen, C_1 - C_6 alkyl optionally substituted with one or two substituents R^8 independently selected from hydroxy, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, CF_3 , -

 $C(=O)O-(C_1-C_4)alkyl, -OC(=O)(C_1-C_4)alkyl, OC(=O)N (C_1-C_4)alkyl), -OC(=O)N (C_1-C_4)alkyl, OC(=O)N (C_1-C_4)alkyl)$ NHCO(C₁-C₄ alkyl), -COOH, -COO(C₁-C₄ alkyl), -CONH(C₁-C₄ alkyl), -CON (C₁-C₄ alkyl)(C_1 - C_2 alkyl), -S(C_1 - C_4 alkyl), -CN, NO₂, -SO(C_1 - C_4 alkyl), -SO₂(C_1 - C_4 alkyl), - $SO_2NH(C_1-C_4 \text{ alkyl})$, $SO_2N(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl})$, wherein a carbon-carbon single bond of each of the C₁-C₄ alkyl groups in the foregoing R¹ groups having at least two carbons may optionally be replaced with a carbon-carbon double or triple bond, and one or two carbon-carbon single bonds of each of the C₁-C₄ alkyl groups in the foregoing R¹ groups having four carbon atoms may optionally be replaced with a carbon-carbon double or triple bond; R² is C₁-C₁₂ alkyl wherein one carbon-carbon single bond of any said alkyl group having at least two carbons, one or two carbon-carbon single bonds of any alkyl having at least four carbons, and from one to three carbon-carbon single bonds of any said alkyl having at least six carbons may optionally be replaced with a carboncarbon double or triple bond; or R² is aryl or (C₁-C₄ alkylene)aryl, wherein said aryl and the aryl moiety of said (C₁-C₄ alkylene)aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; or R^2 is C_3 - C_8 cycloalkyl or $(C_1$ - C_6 alkylene) $(C_3$ - C_8 cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said (C1-C6 alkylene)(C3-C8 cycloalkyl) may optionally and independently be replaced by an oxygen or sulfur atom or by NZ² wherein Z² is selected from hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein each of the foregoing R² groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C₁-C₄ alkyl, or with one substituent selected from bromo, iodo, C₁-C₆ alkoxy, -OC(=O)(C₁-C₆ alkyl), OC(=O)N

 $(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl}), -S(C_1-C_6 \text{ alkyl}), \text{ amino, -NH}(C_1-C_2 \text{ alkyl}), -N(C_1-C_2 \text{ alkyl}), -N(C_1-C_4 \text{ alkyl}), -N(C_1-C_4 \text{ alkyl}), -COO(C_1-C_4 \text{ alkyl}), -NHCO(C_1-C_4 \text{ alkyl}), -COOH, -COO(C_1-C_4 \text{ alkyl}), -CONH(C_1-C_4 \text{ alkyl}), CON(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl}), -SH, -CN, -NO_2, -SO(C_1-C_4 \text{ alkyl}), -SO_2(C_1-C_4 \text{ alkyl}), -SO_2NH(C_1-C_4 \text{ alkyl}) \text{ and } -SO_2N (C_1-C_4 \text{ alkyl}), -SO_2NH(C_1-C_4 \text{ alkyl})$

-NR¹R² may form a 3 to 8 membered ring, said ring consisting of single bonds, wherein, when said ring has from 5 to 8 members, one or two of the ring carbon atoms of such a 5 to 8 membered ring may optionally and independently br replaced by an oxygen or sulfur atom or by NZ³ wherein Z³ is hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

or -CR¹R²R¹⁰ may form a 3 to 8 membered carbocyclic ring, said ring consisting of single bonds, wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

 R^3 is hydrogen, C_1 - C_4 alkyl, $O(C_1$ - C_4 alkyl), chloro, fluoro, bromo, iodo, -CN, - $S(C_1$ - C_4 alkyl) or - $SO_2(C_1$ - C_4 alkyl) wherein each of the $(C_1$ - C_4 alkyl) moieties in the foregoing R^3 groups may optionally be substituted with one substituent R^9 selected from hydroxy, fluoro and $(C_1$ - C_2 alkoxy);

each of R^4 is, independently hydrogen, (C_1 - C_6 alkyl), fluoro, chloro, bromo, iodo, trifluoromethyl, hydroxy, cyano, amino, nitro, -O(C_1 - C_4 alkyl), N (C_1 - C_4 alkyl)(C_1 - C_2

alkyl),

-S(C₁-C₄ alkyl), -SO(C₁-C₄ alkyl), -SO₂(C₁-C₄ alkyl), -CO(C₁-C₄ alkyl), -C(=O)H or $C(=O)O(C_1-C_4 \text{ alkyl})$, wherein one or two of the carbon-carbon single bonds in each of the (C₁-C₆ alkyl) and (C₁-C₄ alkyl) moieties in the foregoing R⁴ groups may optionally be replaced with a carbon-carbon double or triple bond and wherein each of said (C₁-C₆ alkyl) and (C₁-C₄ alkyl) moieties may optionally be substituted with one or two substituents independently selected from hydroxy, amino, C₁-C₃ alkoxy, dimethylamino, methylamino, ethylamino, -NHC(=O)CH₃, fluoro, chloro, -CN, -COOH, -C(=O)O(C₁-C₄ alkyl), -C(=O)(C₁-C₄ alkyl) and NO₂;

R⁵ is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, furanyl, benzofuranyl, benzothiazolyl, benzisothiazolyl, benzisoxazolyl, benzimidazolyl, indolyl, benzoxazolyl or C₃-C₈ cycloalkyl wherein one or two of the carbon atoms of said cycloalkyl rings that contain at least 5 ring members may optionally and independently be replaced by an oxygen or sulfur atom or by NZ⁴ wherein N⁴ is hydrogen, C₁-C₄ is alkyl or benzyl; and wherein each of the foregoing R⁵ groups is substituted with from one to four substituents wherein one to three of said substituents may be selected, independently, from chloro, C₁-C₆ alkyl and -O(C₁-C₆ alkyl) and one of said substituents may be selected from bromo, iodo, formyl, -CN, -CF₃, -NO₂, -NH₂, -NH(C₁-C₄ alkyl), -N(C₁-C₂ alkyl)(C₁-C₆ alkyl), -C(=O)O(C₁-C₄ alkyl), -C(=O)(C₁-C₄ alkyl), -COOH, -SO₂NH(C₁-C₄ alkyl), -SO₂N (C₁-C₂ alkyl) (C₁-C₄ alkyl), and wherein each of the C₁-C₄ alkyl and C₁-C₆ alkyl, moieties in the foregoing R⁵ groups may optionally be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino,

dimethylamino and acetyl; and furthermore wherein when R^5 is phenyl or pyridyl substituted with three substituents, said substituents can further be selected from $(C_1-C_4$ alkyl) $O(C_1-C_4$ alkyl), OCF_3 , and fluoro, and one carbon-carbon single bond of each (C_1-C_4) alkyl group of said substituents having between two and four carbon atoms may be optionally replaced with a carbon-carbon double or triple bond; or R^5 is pyrimidyl substituted by three substituents independently selected from $C_1.C_4$ alkyl, $O(C_1.C_4)$ alkyl, $O(C_1.C_4)$ alkyl, $O(C_1.C_4)$ alkyl, $O(C_1.C_4)$ alkyl groups having been two and four carbon atoms may optionally be replaced by a carbon-carbon double or triple bond;

 R^7 is hydrogen, C_1 - C_4 alkyl, halo, cyano, hydroxy, $-O(C_1$ - C_4 alkyl) $-C(=O)(C_1$ - C_4 alkyl), $-C(=O)O(C_1$ - C_4 alkyl), $-CF_3$, $-CF_3$, $-CH_2$ -OH, $-CH_2O(C_1$ - C_4 alkyl);

R¹⁰ is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁₋C₄ alkyl; and

with the proviso that: (a) when R⁴ is attached to nitrogen, it not halo, cyano or nitro; and (b) one of E, D and F must be nitrogen or substituted nitrogen, and only one of E, D and F can be nitrogen or substituted nitrogen;

Z is NH, oxygen, sulfur, $-N(C_1C_4 \text{ alkyl})$, $-NC(=O)(C_1C_2 \text{ alkyl})$ NC(-O)O(C_1C_2 alkyl) or CR^{13} R¹⁴ wherein R¹³ and R¹⁴ are independently selected from hydrogen, trifluoromethyl and methyl with the exception that one of R¹³ and R¹⁴ can be cyano; or a pharmaceutically acceptable salt of such compound.

Claim 27 (currently amended) A compound of the formula

$$R^3$$
 N
 D
 $E^{---}G$

wherein the dashed lines represent optional double bonds;

B is $-NR^1R^2$, $-CR^1R^2R^{10}$, $-C(=CR^2R^{11})R^1$, $-NHCR^1R^2R^{10}$, $-OCR^1R^2R^{10}$, $-SCR^1R^2R^{10}$, $CR^2R^{10}NHR^1$, $-CR^2R^{10}OR^1$, $-CR^2R^{10}SR^1$ or $-COR^2$;

E is nitrogen, CH or carbon;

D is nitrogen and is single bonded to all atoms to which it is attached, or D is carbon and is double bonded to E, or D is CH and is single bonded to E;

F is CHR⁴ or NR⁴; provided that either 1) exactly one of D or E is nitrogen and F is CHR⁴ or 2) F is NR⁴ and neither D nor E is nitrogen

G, when single bonded to E is hydrogen, C_1 - C_4 alkyl, -S(C_1 - C_4 alkyl), -O(C_1 - C_4 alkyl), NH₂, -NH(C_1 - C_4 alkyl) or -N (C_1 - C_2 alkyl)(C_1 - C_4 alkyl) wherein each of the C_1 - C_4 alkyl groups of G may optionally be substituted by one hydroxy, -O(C_1 - C_2 alkyl) or fluoro group; and G when double bonded to E is oxygen, sulfur or NH; and G, when E is nitrogen and double bonded to D, is absent;

 R^1 is hydrogen, C_1 - C_6 alkyl optionally substituted with one or two substituents R^8 independently selected from hydroxy, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, CF_3 , - $C(=O)O-(C_1-C_4)$ alkyl, $-OC(=O)(C_1-C_4)$ alkyl, OC(=O)N (C_1 - C_4 alkyl)(C_1 - C_2 alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), - $CONH(C_1-C_4)$ alkyl), wherein a carbon-carbon single

bond of each of the C₁-C₄ alkyl groups in the foregoing R¹ groups having at least two carbons may optionally be replaced with a carbon-carbon double or triple bond, and one or two carbon-carbon single bonds of each of the C₁-C₄ alkyl groups in the foregoing R¹ groups having four carbon atoms may optionally be replaced with a carbon-carbon double or triple bond; R2 is C1-C12 alkyl wherein one carbon-carbon single bond of any said alkyl group having at least two carbons, one or two carbon-carbon single bonds of any alkyl having at least four carbons, and from one to three carbon-carbon single bonds of any said alkyl having at least six carbons may optionally be replaced with a carboncarbon double or triple bond; or R² is aryl or (C₁-C₄ alkylene)aryl, wherein said aryl and the aryl moiety of said (C₁-C₄ alkylene)aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; or R^2 is C_3 - C_8 cycloalkyl or $(C_1$ - C_6 alkylene) $(C_3$ - C_8 cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said (C₁-C₆ alkylene)(C₃-C₈ cycloalkyl) may optionally and independently be replaced by an oxygen or sulfur atom or by NZ² wherein Z² is selected from hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein each of the foregoing R² groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C₁-C₄ alkyl, or with one substituent selected from bromo, iodo, C₁-C₆ alkoxy, -OC(=O)(C₁-C₆ alkyl), OC(=O)N $(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl})$, $-S(C_1-C_6 \text{ alkyl})$, amino, $-NH(C_1-C_2 \text{ alkyl})$, $-N(C_1-C_2 \text{ alkyl})$ $alkyl)(C_1-C_4\ alkyl),\ -N(C_1-C_4\ alkyl)-CO-(C_1-C_4\ alkyl),\ -NHCO(C_1-C_4\ alkyl),\ -COOH,\ -NHCO(C_1-C_4\ alkyl),\ -N$ $COO(C_1-C_4 \text{ alkyl})$, $-CONH(C_1-C_4 \text{ alkyl})$, $CON(C_1-C_4 \text{ alkyl})$ ($C_1-C_2 \text{ alkyl}$), -SH, -CN, -CN NO_2 , $-SO(C_1-C_4$ alkyl), $-SO_2(C_1-C_4$ alkyl), $-SO_2NH(C_1-C_4$ alkyl) and $-SO_2N$ (C_1-C_4 alkyl)

 $alkyl)(C_1-C_2 alkyl);$

-NR¹R² may form a 3 to 8 membered ring,[[,]] said ring consisting of single bonds, wherein, when said ring has from 5 to 8 members, one or two of the ring carbon atoms of such a 5 to 8 membered ring may optionally and independently br replaced by an oxygen or sulfur atom or by NZ³ wherein Z³ is hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

or -CR¹R²R¹⁰ may form a 3 to 8 membered carbocyclic ring, said ring consisting of single bonds, wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

 R^3 is hydrogen, C_1 - C_4 alkyl, $O(C_1$ - C_4 alkyl), chloro, fluoro, bromo, iodo, -CN, - $S(C_1$ - C_4 alkyl) or - $SO_2(C_1$ - C_4 alkyl) wherein each of the $(C_1$ - C_4 alkyl) moieties in the foregoing R^3 groups may optionally be substituted with one substituent R^9 selected from hydroxy, fluoro and $(C_1$ - C_2 alkoxy);

each of R^4 is, independently hydrogen, (C_1 - C_6 alkyl), fluoro, chloro, bromo, iodo, trifluoromethyl, hydroxy, cyano, amino, nitro, -O(C_1 - C_4 alkyl), N (C_1 - C_4 alkyl)(C_1 - C_2 alkyl),

-S(C₁-C₄ alkyl), -SO(C₁-C₄ alkyl), -SO₂(C₁-C₄ alkyl), -CO(C₁-C₄ alkyl), -C(=O)H or C(=O)O (C₁-C₄ alkyl), wherein one or two of the carbon-carbon single bonds in each of

the (C_1 - C_6 alkyl) and (C_1 - C_4 alkyl) moieties in the foregoing R^4 groups may optionally be replaced with a carbon-carbon double or triple bond and wherein each of said (C_1 - C_6 alkyl) and (C_1 - C_4 alkyl) moieties may optionally be substituted with one or two substituents independently selected from hydroxy, amino, C_1 - C_3 alkoxy, dimethylamino, methylamino, ethylamino, -NHC(=O)CH₃, fluoro, chloro, -CN, -COOH, -C(=O)O(C_1 - C_4 alkyl), -C(=O)(C_1 - C_4 alkyl) and NO₂;

 R^5 is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, furanyl, benzofuranyl, benzothiazolyl, benzisothiazolyl, benzisoxazolyl, benzimidazolyl, indolyl, benzoxazolyl or C_3 - C_8 cycloalkyl wherein one or two of the carbon atoms of said cycloalkyl rings that contain at least 5 ring members may optionally and independently be replaced by an oxygen or sulfur atom or by NZ^4 wherein N^4 is hydrogen, C_1 - C_4 is alkyl or benzyl; and wherein each of the foregoing R^5 groups is substituted with from one to four substituents wherein one to three of said substituents may be selected, independently, from chloro, C_1 - C_6 alkyl and - $O(C_1$ - C_6 alkyl) and one of said substituents may be selected from bromo, iodo, formyl, -CN, - CF_3 , - NO_2 , - NH_2 , - $NH(C_1$ - C_4 alkyl), - $N(C_1$ - C_2 alkyl)(C_1 - C_6 alkyl), - $C(=O)O(C_1$ - C_4 alkyl), - $C(=O)(C_1$ - C_4 alkyl), -COOH, - $SO_2NH(C_1$ - C_4 alkyl), - SO_2N (C_1 - C_6 alkyl) (C_1 - C_6 alkyl), and wherein each of the C_1 - C_4 alkyl and C_1 - C_6 alkyl, moieties in the foregoing R^5 groups may optionally be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino, dimethylamino and acetyl;

 R^7 is hydrogen, $C_1 \cdot C_4$ alkyl, halo, cyano, hydroxy, $-O(C_1 \cdot C_4$ alkyl) $-C(=O)(C_1 \cdot C_4$ alkyl), $-C(=O)O(C_1 \cdot C_4$ alkyl), $-CF_3 \cdot CF_3 \cdot CH_2 \cdot OH$, $-CH_2O(C_1 \cdot C_4$ alkyl);

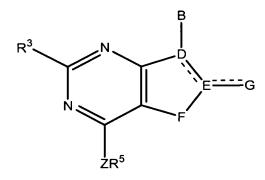
R¹⁰ is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁,C₄ alkyl; and

with the proviso that: (a) when R⁴ is attached to nitrogen, it not halo, cyano or nitro; and (b) one of E, D and F must be nitrogen or substituted nitrogen, and only one of E, D and F can be nitrogen or substituted nitrogen;

Z is NH, oxygen, sulfur, $-N(C_1.C_4 \text{ alkyl})$, $-NC(=O)(C_1.C_2 \text{ alkyl}) NC(-O)O(C_1-C_2 \text{ alkyl})$ or CR^{13} R^{14} wherein R^{13} and R^{14} are independently selected from hydrogen, trifluoromethyl and methyl with the exception that one of R^{13} and R^{14} can be cyano; or a pharmaceutically acceptable salt of such compound.

28 (currently amended) A compound of the formula



wherein the dashed lines represent optional double bonds;

B is -NR¹R², -CR¹R²R¹⁰, -C(=CR²R¹¹)R¹, -NHCR¹R²R¹⁰, -OCR¹R²R¹⁰, -SCR¹R²R¹⁰, CR²R¹⁰NHR¹, -CR²R¹⁰OR¹, -CR²R¹⁰SR¹ or -COR²;

E is nitrogen, CH or carbon;

D is nitrogen and is single bonded to all atoms to which it is attached, or D is carbon and is double bonded to E, or D is CH and is single bonded to E;

F is CHR⁴ or NR⁴; provided that either 1) exactly one of D or E is nitrogen and F is CHR⁴ or 2) F is NR⁴ and neither D nor E is nitrogen;

G, when single bonded to E is hydrogen, C_1 - C_4 alkyl, -S(C_1 - C_4 alkyl), -O(C_1 - C_4 alkyl), NH₂, -NH(C_1 - C_4 alkyl) or -N (C_1 - C_2 alkyl)(C_1 - C_4 alkyl) wherein each of the C_1 - C_4 alkyl groups of G may optionally be substituted by one hydroxy, -O(C_1 - C_2 alkyl) or fluoro group; and G when double bonded to E is oxygen, sulfur or NH; and G, when E is nitrogen and double bonded to D, is absent;

 R^1 is C_1 - C_6 alkyl optionally substituted with one substituent selected from hydroxy, fluoro,, CF_3 , or C_{1-4} alkoxy wherein a carbon-carbon single bond of each of the C_1 - C_4 alkyl groups in the foregoing R^1 groups having at least two carbons may optionally be replaced with a carbon-carbon double or triple bond, R^2 is benzyl or C_{1-6} alkyl which may optionally contain one double or triple bond and wherein said C_{1-6} alkyl and the phenyl moiety of said benzyl may optionally be substituted with one fluoro, Cf_3 , C_1 - C_2 alkyl C_1 - C_2 alkoxy or chloro group.;

-NR¹R² may form a 3 to 8 membered ring,[[,]] said ring consisting of single bonds, wherein, when said ring has from 5 to 8 members, one or two of the ring carbon atoms of such a 5 to 8 membered ring may optionally and independently br replaced by an oxygen or sulfur atom or by NZ³ wherein Z³ is hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

or -CR¹R²R¹⁰ may form a 3 to 8 membered carbocyclic ring, said ring consisting of single bonds, wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

 R^3 is hydrogen, C_1 - C_4 alkyl, $O(C_1$ - C_4 alkyl), chloro, fluoro, bromo, iodo, -CN, - $S(C_1$ - C_4 alkyl) or - $SO_2(C_1$ - C_4 alkyl) wherein each of the $(C_1$ - C_4 alkyl) moieties in the foregoing R^3 groups may optionally be substituted with one substituent R^9 selected from hydroxy, fluoro and $(C_1$ - C_2 alkoxy);

each of R^4 is, independently hydrogen, $(C_1\text{-}C_6 \text{ alkyl})$, fluoro, chloro, bromo, iodo, hydroxy, cyano, amino, nitro, $-O(C_1\text{-}C_4 \text{ alkyl})$, $N(C_1\text{-}C_4 \text{ alkyl})(C_1\text{-}C_2 \text{ alkyl})$, $-S(C_1\text{-}C_4 \text{ alkyl})$, $-SO_2(C_1\text{-}C_4 \text{ alkyl})$, $-CO(C_1\text{-}C_4 \text{ alkyl})$, -C(=O)H or $C(=O)O(C_1\text{-}C_4 \text{ alkyl})$, wherein one or two of the carbon-carbon single bonds in each of the $(C_1\text{-}C_6 \text{ alkyl})$ and $(C_1\text{-}C_4 \text{ alkyl})$ moieties in the foregoing R^4 groups may optionally be replaced with a carbon-carbon double or triple bond and wherein each of said $(C_1\text{-}C_6 \text{ alkyl})$ and $(C_1\text{-}C_4 \text{ alkyl})$ moieties may optionally be substituted with one or two substituents independently selected from hydroxy, amino, $C_1\text{-}C_3 \text{ alkoxy}$, dimethylamino, methylamino, ethylamino, $-NHC(=O)CH_3$, fluoro, chloro, -CN, -COOH, $-C(=O)O(C_1\text{-}C_4 \text{ alkyl})$ and NO_2 .

 R^5 is phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, furanyl, benzofuranyl, benzothiazolyl, benzisothiazolyl, benzisoxazolyl, benzimidazolyl, indolyl, benzoxazolyl or C_3 - C_8 cycloalkyl wherein one or two of the carbon atoms of said cycloalkyl rings that contain at least 5 ring members may optionally and independently be replaced by an oxygen or sulfur atom or by NZ^4 wherein N^4 is hydrogen, C_1 - C_4 is alkyl or benzyl; and wherein each of the foregoing R^5 groups is substituted with from one to four substituents wherein one to three of said substituents may be selected, independently, from chloro, C_1 - C_6 alkyl and -O(C_1 - C_6 alkyl) and one of said substituents

may be selected from bromo, iodo, formyl, -CN, -CF₃, -NO₂, -NH₂, -NH(C₁-C₄ alkyl), - $N(C_1-C_2 \text{ alkyl})(C_1-C_6 \text{ alkyl})$, -C(=O)O(C₁-C₄ alkyl), -C(=O)(C₁.C₄ alkyl), -COOH, - $SO_2NH(C_1-C_4 \text{ alkyl})$, -SO₂N (C₁.C₂ alkyl) (C₁-C₄ alkyl), -SO₂NH₂, NHSO₂ (C₁.C₄ alkyl), -S(C₁-C₆ alkyl) and -SO₂ (C₁-C₆ alkyl), and wherein each of the C₁.C₄ alkyl and C₁-C₆ alkyl, moieties in the foregoing R⁵ groups may optionally be substituted with one or two substituents independently selected from fluoro, hydroxy, amino, methylamino, dimethylamino and acetyl;

 R^7 is hydrogen, C_1 - C_4 alkyl, halo, cyano, hydroxy, $-O(C_1$ - C_4 alkyl) $-C(=O)(C_1$ - C_4 alkyl), $-C(=O)O(C_1$ - C_4 alkyl), $-CF_3$, $-CF_3$, $-CH_2$ -OH, $-CH_2O(C_1$ - C_4 alkyl);

R¹⁰ is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁.C₄ alkyl; and

with the proviso that: (a) when R⁴ is attached to nitrogen, it not halo, cyano or nitro; and (b) one of E, D and F must be nitrogen or substituted nitrogen, and only one of E, D and F can be nitrogen or substituted nitrogen;

Z is NH, oxygen, sulfur, $-N(C_1.C_4 \text{ alkyl})$, $-NC(=O)(C_1.C_2 \text{ alkyl}) NC(-O)O(C_1-C_2 \text{ alkyl})$ or CR^{13} R^{14} wherein R^{13} and R^{14} are independently selected from hydrogen, trifluoromethyl and methyl with the exception that one of R^{13} and R^{14} can be cyano; or a pharmaceutically acceptable salt of such compound.

29 (currently amended) A compound of the formula

$$R^3$$
 N
 D
 E
 E
 ZR^5

wherein the dashed lines represent optional double bonds;

B is -NR¹R², -CR¹R²R¹⁰, -C(=CR²R¹¹)R¹, -NHCR¹R²R¹⁰, -OCR¹R²R¹⁰, -SCR¹R²R¹⁰, CR²R¹⁰NHR¹, -CR²R¹⁰OR¹, -CR²R¹⁰SR¹ or -COR²;

E is nitrogen, CH or carbon;

D is nitrogen and is single bonded to all atoms to which it is attached, or D is carbon and is double bonded to E, or D is CH and is single bonded to E;

F is CHR⁴ or NR⁴; provided that either 1) exactly one of D or E is nitrogen and F is CHR⁴ or 2) F is NR⁴ and neither D nor E is nitrogen;

G, is hydrogen, methyl or ethyl or E=G is C=O or C=S;

 R^1 is hydrogen, C_1 - C_6 alkyl optionally substituted with one or two substituents R^8 independently selected from hydroxy, fluoro, chloro, bromo, iodo, C_1 - C_4 alkoxy, CF_3 , - C(=O)O- $(C_1$ - C_4)alkyl, - $OC(=O)(C_1$ - C_4)alkyl, OC(=O)N (C_1 - C_4 alkyl)(C_1 - C_2 alkyl), - $NHCO(C_1$ - C_4 alkyl), -COOH, - $COO(C_1$ - C_4 alkyl), - $CONH(C_1$ - C_4 alkyl), - $CON(C_1$ - C_4 alkyl), wherein a carbon-carbon single bond of each of the C_1 - C_4 alkyl groups in the foregoing R^1 groups having at least two carbons may optionally be replaced with a carbon-carbon double or triple bond, and one or two carbon-carbon single bonds of each of the C_1 - C_4 alkyl groups in the foregoing R^1

groups having four carbon atoms may optionally be replaced with a carbon-carbon double or triple bond; R² is C₁-C₁₂ alkyl wherein one carbon-carbon single bond of any said alkyl group having at least two carbons, one or two carbon-carbon single bonds of any alkyl having at least four carbons, and from one to three carbon-carbon single bonds of any said alkyl having at least six carbons may optionally be replaced with a carboncarbon double or triple bond; or R² is aryl or (C₁-C₄ alkylene)aryl, wherein said aryl and the aryl moiety of said (C₁-C₄ alkylene) aryl is selected from phenyl, naphthyl, thienyl, benzothienyl, pyridyl, quinolyl, pyrazinyl, pyrimidinyl, imidazolyl, furanyl, benzofuranyl, benzothiazolyl, isothiazolyl, pyrazolyl, pyrrolyl, indolyl, pyrrolopyridyl, oxazolyl and benzoxazolyl; or R^2 is C_3 - C_8 cycloalkyl or $(C_1$ - C_6 alkylene) $(C_3$ - C_8 cycloalkyl), wherein one or two of the carbon atoms of said cycloalkyl and the 5 to 8 membered cycloalkyl moieties of said (C₁-C₆ alkylene)(C₃-C₈ cycloalkyl) may optionally and independently be replaced by an oxygen or sulfur atom or by NZ2 wherein Z2 is selected from hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein each of the foregoing R² groups may optionally be substituted with from one to three substituents independently selected from chloro, fluoro, hydroxy and C₁-C₄ alkyl, or with one substituent selected from bromo, iodo, C₁-C₆ alkoxy, -OC(=O)(C₁-C₆ alkyl), OC(=O)N $(C_1-C_4 \text{ alkyl})(C_1-C_2 \text{ alkyl})$, $-S(C_1-C_6 \text{ alkyl})$, amino, $-NH(C_1-C_2 \text{ alkyl})$, $-N(C_1-C_2 \text{ alkyl})$ alkyl)(C_1 - C_4 alkyl), -N(C_1 - C_4 alkyl)-CO-(C_1 - C_4 alkyl), -NHCO(C_1 - C_4 alkyl), -COOH, - $COO(C_1-C_4 \text{ alkyl})$, $-CONH(C_1-C_4 \text{ alkyl})$, $CON(C_1-C_4 \text{ alkyl})$ ($C_1-C_2 \text{ alkyl}$), -SH, -CN, -CN NO_2 , $-SO(C_1-C_4$ alkyl), $-SO_2(C_1-C_4$ alkyl), $-SO_2NH(C_1-C_4$ alkyl) and $-SO_2N(C_1-C_4$ $alkyl)(C_1-C_2 alkyl);$

-NR¹R² may form a 3 to 8 membered ring,[[,]] said ring consisting of single

bonds, wherein, when said ring has from 5 to 8 members, one or two of the ring carbon atoms of such a 5 to 8 membered ring may optionally and independently br replaced by an oxygen or sulfur atom or by NZ³ wherein Z³ is hydrogen, C₁-C₄ alkyl, benzyl and C₁-C₄ alkanoyl, and wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

or -CR¹R²R¹⁰ may form a 3 to 8 membered carbocyclic ring, said ring consisting of single bonds, wherein from one to three of the single bonds of such a 3 to 8 membered ring that are carbon-carbon or carbon-nitrogen single bonds may each optionally be replaced by a double bond;

R³ is methyl, ethyl, chloro or methoxy;

each of R⁴ is methyl, ethyl or trifluoro methyl;

R⁵ is phenyl or pyridyl,

 $R^7 \text{ is hydrogen, } C_1.C_4 \text{ alkyl, halo, cyano, hydroxy, -O(C_1-C_4 \text{ alkyl) -C(=O)(C_1.C_4 \text{ alkyl), -C(=O)O(C_1-C_4 \text{ alkyl), -OCF}_3, -CF_3, -CH_2-OH, -CH_2O(C_1-C_4 \text{ alkyl);}}$

R¹⁰ is hydrogen, hydroxy, methoxy or fluoro;

R¹¹ is hydrogen or C₁.C₄ alkyl; and

with the proviso that: (a) when R⁴ is attached to nitrogen, it not halo, cyano or nitro; and (b) one of E, D and F must be nitrogen or substituted nitrogen, and only one of E, D and F can be nitrogen or substituted nitrogen;

Z is NH, oxygen, sulfur, $-N(C_1C_4 \text{ alkyl})$, $-NC(=O)(C_1C_2 \text{ alkyl})$ NC(-O)O(C_1-C_2 alkyl) or CR^{13} R^{14} wherein R^{13} and R^{14} are independently selected from hydrogen,

trifluoromethyl and methyl with the exception that one of R^{13} and R^{14} can be cyano; or a pharmaceutically acceptable salt of such compound.